



**CITY OF ST. LOUIS
DEPARTMENT OF FINANCE
OFFICE OF THE SUPPLY COMMISSIONER**

**CAROL L SHEPARD, CPA
SUPPLY COMMISSIONER**

**FRANCIS G. SLAY
MAYOR**

**1200 MARKET ST RM 324
ST LOUIS MO 63103
PHONE: 314-622-4580
FAX: 314-622-4141**

DATE: August 31, 2016

ADDENDUM #1 - QUOTE: #91017Q0081 / REFUSE-SIDELOADER

NEW BID OPENING DATE: 9/8/16 @ 12:00 NOON

TO: All Bidders

FROM: Stephen M. Gregali – gregalis@stlouis-mo.gov

DEPARTMENT – EQUIPMENT SERVICES

NOTE: Be advised that the City of St. Louis is currently considering switching from diesel to compressed natural gas (CNG) starting with this procurement of these four (4) refuse trucks. The specification addendum is attached to the bid package.

ADDENDUM RECEIVED AND ACKNOWLEDGED

Name of Firm

Representative

Signature

Date

Questions: Contact Stephen M. Gregali: gregalis@stlouis-mo.gov

OFFICE OF THE SUPPLY COMMISSIONER
1200 MARKET ST., RM 324
ST LOUIS MO 63103-2842

... We agree to furnish the following articles to the City of St. Louis,
free of any extra charges, in the quantity named and at the prices respectively
stated:



9101700081

1

ADDRESS CORRESPONDENCE TO

TO

SHIP
TO

EQUIPMENT SERVICES DIVISION
1900 HAMPTON
ST LOUIS MO

63139

314-768-2891

SEE TERMS AND CONDITIONS ON THE REVERSE SIDE OF THIS QUOTATION SHEET.

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
08/01/16				

REPLY DUE BY: 09/08/16 12:00 O'CLOCK NOON

NEEDED BY DATE	QUANTITY	UNIT	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
	REQ LINE NUMBER : 0001					
	4	EA		CITY 910SIDELOADER		
	REFUSE - SIDELOADER (SEE ATTACHED SPECIFICATIONS)					
	REFUSE - SIDELOADER BODIES 24YD. AUTO PACK - ROUND TOP					
	SEE ATTACHED SPECIFICATIONS					
	BRAND ----- PRODUCT NO. -----					
	OR ACCEPTABLE EQUAL; UNLESS "NO SUBSTITUTE" ALLOWED MANUFACTURER BRAND AND/OR CATALOG DESCRIPTION IN SPECIFYING ANY ITEM DOES NOT RESTRICT BIDDERS TO THAT MANUFACTURER BRAND, OR CATALOG DESC. IDENTIFICATION THE BIDS SUBMITTED MUST BE OF SUCH CHARACTER, QUALITY, AND/OR EQUIVALENCE THAT IT WILL SERVE THE PURPOSE FOR WHICH IT IS TO BE USED EQUALLY WELL AS THAT SPECIFIED, AND BE ACCEPTABLE TO THE USING DEPARTMENT. BIDDER MUST FURNISH COMPLETE DATA AND INFORMATION FOR ITEMS BID THAT DO NOT MEET THE SPECIFICATIONS LISTED IN THE BID.					
 BIDS WILL BE AWARDED BASED ON OFFICIAL SPECIFICATIONS PROVIDED BY SUPPLY DIVISION ONLY & ANY RELATED ADDENDA. ALL INQUIRIES RELATED TO THIS BID MUST BE IN WRITING (LETTER/E-MAIL/FAX) TO STEPHEN GREGALI:					
	TOTAL →					

NAME OF FIRM		STATE DELIVERY:	COMPTROLLER	Date
ADDRESS			CALENDAR DAYS	
CITY	STATE	SIGNED BY:	SUPPLY COMMISSIONER	Date
PHONE Area Code ()				

ADVERTISED BID CITY OF ST. LOUIS

OFFICE OF THE SUPPLY COMMISSIONER
1200 MARKET ST RM 324
ST LOUIS MO 63103-2842



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stated:

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REQUEST FOR QUOTE

91017Q0081

PAGE

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ADDRESS CORRESPONDENCE TO

EQUIPMENT SERVICES DIVISION
1900 HAMPTON
ST LOUIS MO

63139

314-768-2891

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08/01/16				

REPLY DUE BY: 08/31/16 12:00 O'CLOCK NOON

NEEDED BY DATE	QUANTITY	UNIT	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
	GREGALIS@STLOUIS-MO.GOV/P: 314-622-4250/FX: 314-622-4141 CHECK HERE IF YOU WANT A BID TABULATION: ALLOW 30 DAYS FOR RESULTS					
	STATE BEST GUARANTEED DELIVERY: _____ A.R.O.					
	ALL ITEMS SHALL BE F.O.B. DESTINATION					
	FREIGHT OR DELIVERY CHARGES MUST BE INCLUDED IN QUOTE OR INDICATED BELOW IN ORDER TO RECEIVE PAYMENT!					
	() FREIGHT IS INCLUDED IN THE QUOTE PROVIDED - OR -					
	() WE WILL CHARGE \$ _____ FREIGHT/DELIVERY					
	THE CITY RESERVES THE RIGHT TO SPLIT AWARDS, VENDOR MUST INDICATE (SPLIT) OR (ALL OR NONE) FOR MULTI LINE BIDS.					
	----- BIDDING "ALL OR NONE"					
	----- SPLIT AWARD ACCEPTABLE					
	PLEASE PROVIDE CONTACT INFORMATION FOR THIS BID:					
	NAME: _____					
	E-MAIL: _____					
	TOTAL ➡					

NAME OF FIRM	STATE DELIVERY: CALENDAR DAYS	COMPTROLLER	Date
ADDRESS			
CITY	SIGNED BY:	SUPPLY COMMISSIONER	Date
PHONE			
Area Code ()			

ADVERTISED BID CITY OF ST. LOUIS

OFFICE OF THE SUPPLY COMMISSIONER
1200 MARKET ST RM 324
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REQUEST FOR QUOTE
91017Q0081

PAGE
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ST LOUIS MO

63139

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08/01/16				

REPLY DUE BY: 08/31/16 12:00 O'CLOCK NOON

NEEDED BY DATE	QUANTITY	UNIT	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>PHONE : _____</p> <p>ORDINANCE #60643 - A CITY OF ST LOUIS BUSINESS LICENSE IS REQUIRED IF YOUR COMPANY MEETS ANY OF THE FOLLOWING: (CHECK AS APPROPRIATE):</p> <p>----- BUSINESS IS LOCATED WITHIN THE CITY LIMITS</p> <p>----- DELIVERY WITHIN CITY LIMITS IS BY COMPANY TRUCK</p> <p>----- SALES CALLS ARE MADE WITHIN THE CITY LIMITS</p> <p>* VENDORS SHOULD NOTE IF THEY ARE MINORITY OR WOMEN OWNED BUSINESS (CHECK)</p> <p>MBE ----- WBE -----</p> <p>LIST ITEMS MANUFACTURED, ASSEMBLED OR PRODUCED IN A FOREIGN COUNTRY ON THE ENCLOSED (BUY AMERICAN) FORM FOR BIDS TOTALING \$1,000 OR HIGHER</p> <p>***** WEBSITE INFORMATION *****</p> <p>* * TO DOWNLOAD SUPPLY BIDS GO TO: * * HTTP://STLOUIS-MO.GOV/SUPPLY/BID-NOTICES.CFM * * CLICK ON BID NOTICES *****</p> <p>TOTAL →</p>						

NAME OF FIRM	STATE DELIVERY: CALENDAR DAYS	COMPTROLLER	Date
ADDRESS			
CITY	SIGNED BY:	SUPPLY COMMISSIONER	Date
PHONE			
Area Code ()			

SPECIFICATIONS FOR A 24 CU. YD. COMMERCIAL EJECT SIDE LOADER
ROUNDED TOP
KANN MODEL SLEC or EQUAL

SCOPE

It is the intent of this specification to describe a hydraulically actuated refuse packer with the following minimum specifications considered necessary to perform the work assigned and will be the product of a manufacturer actively engaged in the production of refuse collection equipment and will embody their latest improvements in design and construction. The body's construction and specifications shall be in compliance with the applicable standards as specified by the American National Standards Institute (ANSI Z245.1).

GENERAL

The body shall be of a curved shell, radius top design and shall be mounted in such a way that the load is discharged by the ejection of the body.

1. **No bid will be accepted from any vendor that has not demoed their equipment with the City of St. Louis Refuse since January 1, 2015.**
2. Bidders shall have a minimum of 150 working Commercial Side Loaders in the field.
3. Bidders shall have a minimum of 15 different municipalities with working Commercial Side Loaders.
No Exceptions!

BODY

1. Capacity shall be 24 cubic yards, including the hopper and tailgate.
2. Body shall be of a curved shell design with a radiused top with a tail hinge.
No Exceptions!
3. Body width shall not exceed 96".
4. Body height shall be 99" above chassis frame height.
5. Container dump height shall be no more than 102" from the ground.
No exceptions!

6. Hopper shall be a minimum of 6 cu. yd. capacity.
7. Body shall have a fixed panel wall separating hopper and body compartments.
8. Receiving container shall be constructed with a 1 ¼" taper front to rear to insure clean discharge.
9. Body shall have a hinged follower cover to prevent material from getting behind the blade. This feature shall be guided by patented 2" rollers to reduce wear on guide channels. Guide rails shall not require lubrication.
No Exceptions!
10. Body shall be sealed to hold liquids up to 12" deep.
11. Body shall have a front clean out to clear materials ahead of blade and have a sealed door on each side. Body shall also have mid body clean out doors for behind the eject wall.
12. Bolt on ladder with catwalk shall be provided.
13. All exterior welds shall be continuous.

LIFTING MECHANISM

1. Body shall have a hydraulically operated curb side double hook lifting mechanism. Mechanism shall be able to handle 1 to 4 cubic yard side load rectangular containers. Lifting mechanism shall include a grabber for carts.
2. Container lifting mechanism shall be of sufficient design to safely lift and dump containers of up to 3000-lbs. capacity and incorporate an automatic latch and release feature.
3. **Lifting mechanism shall dump at mid height of body. Lift mechanisms that dump at top of body are not acceptable.**
4. **Container dump height shall be no more than 102" from ground.**
No Exceptions
5. Unit must be equipped with an Autolift lift bar .
No Exceptions!
6. **Center pivoting lift arms not acceptable.**

CONSTRUCTION

1. Hopper frame shall be constructed of 3/16" high tensile steel.
2. Hopper sides shall be constructed of 3/16" AR450.
3. Hopper wall shall have 16" x 18" removable service doors both sides.
No Exceptions!
4. Body sidewalls shall be constructed of 10 gauge AR235 high strength steel with a curved shell design for added strength and less weight.
5. Body roof sheet shall be constructed with 12 gauge Gr. 50 high strength steel.
6. Body floor shall be constructed of 3/16" AR450 steel plate.
7. Hopper floor shall be constructed of 3/16" AR450 steel plate.

TAILGATE

1. Tailgate shall be one piece - bubble style – top hinged – and of 1 cu. yd. capacity.
2. Tailgate shall be constructed of 11 gauge Gr. 50 high tensile steel reinforced with 4" x 4" x 3/16" tubing.
3. Rubber door seal shall cover the bottom and 18" up both sides of tailgate eliminating leakage of liquids.
4. Tailgate shall be actuated by two (2) 3" x 29" hydraulic cylinders with fittings to prevent rapid descent of tailgate in the event of hydraulic or hose failure.
5. Tailgate shall lock and release hydraulically.
6. Tailgate lock and lift cylinders shall operate from the cab.
7. Manual safety pin lock shall be included on tailgate.
8. Safety props for tailgate shall be painted safety yellow and attach to tailgate.
9. All exterior welds shall be continuous.

EJECT SYSTEM

1. Body shall have an independent eject wall with an attached hopper tray and a single stage cylinder.
No Exceptions!
2. Eject wall shall be completely independent of the compactor blade.
3. Body shall have 3" channel track with Ductile iron guide shoes (replaceable).

PACKING MECHANISM

1. Compactor blade shall penetrate receiving container 4" to reduce feedback of material into hopper.
2. **Compactor must be able to accept dumping of containers at any point in its cycle and be capable of continuous compaction.**
No Exceptions!
3. Blade face plate shall be constructed of ¼" AR 450. Bottom blade face plate shall be ½" AR 450.
4. Compactor blade must travel on eject panel eliminating wear to interior of compactor body.
5. Packing blade shall be hydraulically actuated by two (2) double acting single stage 5" cylinders of cross cylinder design. Compactor cylinder force shall be a minimum of 70,000 lbs.
6. Compactor shall be remote grease lines.
7. Compactor cycle time shall not exceed 16 seconds at idle.

HYDRAULIC SYSTEM

1. Hydraulic pump shall be front mounted – crankshaft driven - 38 GPM @ 700 RPM and include a hydraulic overspeed control to protect system from excessive flow and overheating at high engine RPM's.
2. Hydraulic reservoir shall be a minimum 60-gallon capacity with internal baffles and include sight and temperature gauges.
3. Suction strainer shall be 100 mesh rated for 100 GPM.

4. Filter shall be MP 10-micron absolute-95 GPM or equal.
5. Reservoir drain plug shall be magnetic.
6. Hydraulic valve shall be capable of 70 GPM flow.
7. Commercial 3" x 29" tailgate cylinders or equal.
8. Mechanism lift cylinders shall be 5" bore x 16" stroke.
9. Mechanism reach cylinders shall be 2.5" bore x 24" stroke.
10. Compactor blade cylinders shall be two (2) single stage – double acting – trunnion mounted cross 5" bore x 50-5/8" stroke.
11. Hydraulic operating pressure shall be 2,000 psi maximum.
12. All cylinders shall be single stage. No telescopic cylinders will be accepted.

ELECTRICAL SPECIFICATIONS

1. Compactor controls shall be electric over air in cab.
2. Six (6) way joystick shall function mechanism and grabber.
3. Electric rocker switches shall operate tailgate.
4. Relays shall be automotive style.
5. Electrical system shall be protected by automatic reset circuit breakers.
6. Wiring shall be MTW with WEATHERPACK / Metripac fittings.
7. Lighting shall comply with DOT and FMVSS.
8. All work lights shall be LED.
9. A Whelen strobe #M6A shall be mounted on the tailgate.
10. 7" round Grote amber arrow lights shall be mounted on the tailgate.

CYCLE TIMES

1. Compactor – 16 seconds at idle. 25 seconds with lift mechanism running.
2. Lift – dump container – 12 seconds.

MISCELLANEOUS

1. Rear mounted bolt on DOT approved bumper painted safety yellow shall be installed.
2. Paint shall be PPG polyurethane DFHS type installed with approved DPU166 primer and procedure. Color _____
3. Video system to monitor, mast and hopper and lift bar with cameras and work lights.
4. Back-up alarm and rear mud flaps shall be provided.
5. Broom and shovel holder shall be provided.

Bid Addendum Refuse Trucks

Be advised that the City of St. Louis is currently considering switching from diesel to compressed natural gas (CNG) starting with this procurement of these four (4) refuse trucks. CNG vehicle proposals should include a cost option from the following CNG fuel system provider:

Mainstay Fuel Technologies

Contact: David Benner

Office Phone: 864-249-8071

Mobile Phone: 864-915-0305

E-mail: david@mainstayfueltech.com

Website: www.mainstayfueltech.com

Please include, at a minimum, an optional bid with your response which includes:

- Start with a cab and chassis with Cummins Westport 9L CNG ready engine with single rear axle 164" wheelbase and overall length not to exceed 330" (see attached diagrams of planned chassis).
- Install standard CNG (NGV1) filling connector at the front of the vehicle above the frame and bumper.
- CNG tanks installed shall be a minimum of 30 diesel gallons equivalent (DGE) or 34 gasoline gallon equivalents (GGE).
- CNG tanks may be placed below the body protected inside the frame and/or on top of the body in a protective cover. Protective covers must be easily opened with common mechanical fasteners to permit inspections and maintenance. Protective covers should be tapered at the front if possible to facilitate passing under low-hanging wires in alleys.
- The wheelbase of the chassis and overall length of the truck may NOT be extended any as it is set to maximum which will permit turning in tight City alleys. When placing CNG tanks, care must be taken not to shift the weight center rearward such that the axle length required becomes unstable.
- The traveling height may NOT be extended 14' to clear overpasses and overhead wires strung over an alley. Lower heights closer to 12' are preferred.

As an alternative optional bid, if it is impossible to add CNG to the body as originally specified and keep the length, turning radius and maximum height under 14' of the completed unit the same, bid doing so by shortening the body and reducing the trash capacity. In this case, clearly state the capacity loss and any other trade-offs required.

